QC ABSTRACT

NAME OF WORK: "Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (150mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	7 set /151-200 cum	183.61	14	14

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-22-31** **Date: 04-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11.DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.24	–
2	Finess by Air permeablity method (m^2/kg,Min)	273.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-22-31** **Date: 02-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-04-22-31 **Date: 04-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	5728	6102	40.7	59.3	30-70
4	10 mm	4773	10875	72.5	27.5	10-35
5	4.75 mm	3464	14339	95.6	4.4	0-5
6	Pan	661	15000	100.0	0	---

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-22-31** **Date: 04-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.2	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-04-22-31 **Date: 03-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	211	211	4.2	95.8	90-100
3	10 mm	2894	3105	62.1	37.9	25-55
4	4.75 mm	1698	4803	96.1	3.9	0-10
5	Pan	197	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-22-31** **Date: 03-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.18	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-22-31** **Date: 03-02-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/179/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-22-31** **Date: 03-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-04-22-31**	**Date: 12-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)	
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097	
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-02-21	
Sample Type /Size	:	Precast Cover Slab (100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	08/02/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2021-04-22-31 **Date: 08-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-21
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	06-02-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	150	199	12089	33.265	2751.6	2749.0	Not less than 1800Kg/m^3
2	405	150	198	12029	32.674	2716.3		
3	403	149	200	12009	33.373	2778.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-04-22-31 Date: 08-02-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	150	199	
3	400	150	203	
4	401	150	200	
5	400	150	199	
6	403	149	203	
7	404	153	202	
8	400	152	201	
9	403	151	200	
10	400	152	199	
11	400	152	200	
12	399	150	203	
13	402	152	203	
14	401	150	203	
15	403	150	200	
16	403	151	201	
17	402	151	199	
18	401	149	199	
19	400	151	199	
20	401	151	199	
Average of 20	**401**	**151**	**201**	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : CP-2021-04-22-31

Date: 08-02-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60723	283.0	4.7	4.5
2	403	150	60497	287.7	4.8	
3	400	150	60119	275.4	4.6	
4	401	150	60309	261.2	4.3	
5	400	150	60157	263.8	4.4	
6	403	149	60245	268.7	4.5	
7	404	153	61597	271.8	4.4	
8	400	152	60805	278.4	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-22-31** **Date: 22/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/179/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	22/02/2021	150.97 X 149.06 X 150.71	22503	**9.067**	270.4	12.0	12.4
2	PCC	M15	15/02/2021	22/02/2021	149.20 X 149.37 X 149.09	22285	**8.766**	286.3	12.8	
3	PCC	M15	15/02/2021	22/02/2021	151.48 X 150.67 X 151.71	22823	**8.553**	281.2	12.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-22-31** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/179/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	15/03/2021	149.78 X 151.06 X 149.40	22626	**8.313**	387.0	17.1	17.4
2	PCC	M15	15/02/2021	15/03/2021	151.76 X 151.37 X 149.83	22971	**8.965**	401.0	17.5	
3	PCC	M15	15/02/2021	15/03/2021	149.41 X 149.01 X 149.09	22263	**9.054**	392.3	17.6	

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-22-31** **Date: 22/02/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	22/02/2021	149.25 X 150.92 X 151.21	22526	9.067	291.0	12.9	12.7
2	PCC	M15	15/02/2021	22/02/2021	149.93 X 149.10 X 149.41	22355	8.766	285.9	12.8	
3	PCC	M15	15/02/2021	22/02/2021	149.40 X 150.59 X 151.33	22497	8.553	276.3	12.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-22-31** **Date: 15/03/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	15/03/2021	151.10 X 150.55 X 151.12	22749	8.313	404.5	17.8	17.8
2	PCC	M15	15/02/2021	15/03/2021	150.35 X 149.42 X 149.83	22465	8.965	400.3	17.8	
3	PCC	M15	15/02/2021	15/03/2021	150.89 X 151.85 X 150.68	22913	9.054	405.5	17.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-22-31** **Date: 22/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/179/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	22/02/2021	150.68 X 149.50 X 151.31	22527	**9.067**	288.3	12.8	12.6
2	PCC	M15	15/02/2021	22/02/2021	150.66 X 149.97 X 149.99	22595	**8.766**	277.6	12.3	
3	PCC	M15	15/02/2021	22/02/2021	151.06 X 151.29 X 149.60	22855	**8.553**	287.5	12.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/03/2021

Lab ID	:	CP-2021-04-22-31
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	15/03/2021	150.15 X 150.94 X 150.31	22664	8.313	385.8	17.0	17.2
2	PCC	M15	15/02/2021	15/03/2021	151.25 X 151.80 X 150.56	22961	8.965	399.3	17.4	
3	PCC	M15	15/02/2021	15/03/2021	151.86 X 150.63 X 151.06	22874	9.054	390.7	17.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-22-31** **Date: 22/02/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	22/02/2021	149.34 X 149.63 X 149.89	22345	9.067	288.8	12.9	12.6
2	PCC	M15	15/02/2021	22/02/2021	149.86 X 149.24 X 150.88	22365	8.766	273.1	12.2	
3	PCC	M15	15/02/2021	22/02/2021	151.79 X 149.63 X 149.68	22712	8.553	289.0	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-22-31** **Date: 15/03/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA. Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Customer iD	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/02/2021	15/03/2021	151.33 X 151.98 X 149.54	22998	**8.313**	406.0	17.7	17.5
2	PCC	M15	15/02/2021	15/03/2021	151.32 X 149.43 X 149.18	22613	**8.965**	387.1	17.1	
3	PCC	M15	15/02/2021	15/03/2021	149.84 X 149.73 X 151.69	22436	**9.054**	396.0	17.6	

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Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-22-31** **Date: 23/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)

Agency : M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097

Customer's Reference : BBMP/EE/BTP/WO/179/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-02-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	23/02/2021	150.08 X 150.33 X 150.26	22561	9.067	275.4	12.2	12.4
2	PCC	M15	16/02/2021	23/02/2021	151.23 X 149.23 X 149.55	22567	8.766	288.1	12.8	
3	PCC	M15	16/02/2021	23/02/2021	149.71 X 150.88 X 150.81	22589	8.553	274.9	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	16/03/2021	150.72 X 150.97 X 151.81	22753	**8.313**	404.0	17.8	17.7
2	PCC	M15	16/02/2021	16/03/2021	149.54 X 149.00 X 149.41	22282	**8.965**	386.2	17.3	
3	PCC	M15	16/02/2021	16/03/2021	149.50 X 149.45 X 149.70	22343	**9.054**	400.3	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/02/2021

Lab ID	:	CP-2021-04-22-31
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	23/02/2021	149.64 X 149.99 X 149.52	22444	9.067	289.3	12.9	12.5
2	PCC	M15	16/02/2021	23/02/2021	149.82 X 151.86 X 149.54	22751	8.766	274.4	12.1	
3	PCC	M15	16/02/2021	23/02/2021	149.15 X 151.16 X 149.13	22545	8.553	280.9	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/03/2021

Lab ID	:	**CP-2021-04-22-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	16/03/2021	150.40 X 151.17 X 150.07	22736	**8.313**	388.2	17.1	17.5
2	PCC	M15	16/02/2021	16/03/2021	150.33 X 149.15 X 151.65	22422	**8.965**	403.3	18.0	
3	PCC	M15	16/02/2021	16/03/2021	149.98 X 150.81 X 149.65	22618	**9.054**	393.2	17.4	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/02/2021

Lab ID	:	**CP-2021-04-22-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	23/02/2021	150.84 X 151.46 X 150.77	22847	**9.067**	291.2	12.7	12.4
2	PCC	M15	16/02/2021	23/02/2021	151.55 X 149.36 X 151.67	22636	**8.766**	282.3	12.5	
3	PCC	M15	16/02/2021	23/02/2021	151.82 X 149.09 X 149.50	22634	**8.553**	272.0	12.0	

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GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-22-31** **Date: 16/03/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains Vidyaranyapura Main Road and Cross Roads and Surrounding Areas in Ward No 09 (Vidyaranyapura)
Agency	:	M/S PROPEL INFRA, Prop Sheela K S, NO:D2-203, Thindlu Main, Road Kodigehalli, Vidyaranyapura Post, Bangalore-560097
Customer's Reference	:	BBMP/EE/BTP/WO/179/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/02/2021	16/03/2021	149.11 X 151.86 X 150.37	22644	**8.313**	395.2	17.5	17.3
2	PCC	M15	16/02/2021	16/03/2021	150.39 X 149.31 X 151.51	22453	**8.965**	387.6	17.3	
3	PCC	M15	16/02/2021	16/03/2021	149.54 X 149.34 X 151.90	22333	**9.054**	386.1	17.3	

* The results obtained are satisfactory as per standard requirements

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